

**ABSTRACT:**

A radio module (10) suitable for RF applications, especially for Bluetooth, comprises a substrate (1) with a semiconductor device (11), a shield (21), and an antenna (31). The shield (21) is located between the antenna (31) and the semiconductor device (11), and is present on the same side (2) of the substrate (1) as the semiconductor device (11) and 5 the antenna (31). By preference, the antenna (31) and the shield (21) are connected to one another by support means (32, 42).

Fig. 1